Section I (Amendment of the Claims)

Please cancel claims 18-20. Please add claims 31-41, as set out below in the listing of claims 1-41 of the application.

1. (Previously Presented) A light emitting assembly comprising a solid state device coupleable with a power supply constructed and arranged to power the solid state device to emit from the solid state device a first, relatively shorter wavelength radiation, and a down-converting luminophoric medium arranged in receiving relationship to said first, relatively shorter wavelength radiation, and which in exposure to said first, relatively shorter wavelength radiation, is excited to responsively emit radiation in the visible white light spectrum.

2. (Previously Presented) A light emitting assembly according to claim 1, wherein the solid state device and down-converting luminophoric medium are associated in a unitary structure.

3. (Previously Presented) A light emitting assembly according to claim 1, further comprising a housing member formed of a light-transmissive material, said housing member defining therewithin an interior volume, with said solid state device and down-converting luminophoric medium being disposed in said interior volume.

4. (Previously Presented) A light emitting assembly according to claim 3, further comprising first and second electrical contacts extending through said housing member and coupleable to a power supply which is constructed and arranged for imposing a voltage on said solid state device to induce emission of said first, relatively shorter wavelength radiation outside the visible white light spectrum.

5. (Previously Presented) A light emitting assembly according to claim 4, wherein said down-converting luminophoric medium is contiguously arranged in said interior volume of said housing in relation to said solid state device.

6. (Previously Presented) A light emitting assembly according to claim 4, wherein said down-converting lurninophoric medium is arranged in spaced relation to said solid state device in said

interior volume of said housing.

7. (Previously Presented) A light emitting assembly according to claim 1, wherein said solid state device comprises a device which is selected from the group consisting of semiconductor light emitting diodes, semiconductor lasers, thin film electrolurninecent cells, electroluminescent display panels, organic based light-emitting diodes, polymeric-based light-emitting diodes, internal junction organic electroluminescent devices, and combinations thereof

8. (Previously Presented) A light emitting assembly according to claim 1, wherein said solid state device comprises a device which is selected from the group consisting of semiconductor light emitting diodes and semiconductor lasers.

9. (Previously Presented) A light emitting assembly according to claim 1, wherein said solid state device comprises a semiconductor light emitting diode.

10. (Previously Presented) A light emitting assembly according to claim 1, wherein said solid state device comprises a semiconductor light emitting diode including a substrate and a multilayer device structure, and wherein said substrate comprises silicon carbide.

11. (Previously Presented) A light emitting assembly according to claim 1, wherein said solid state device comprises a semiconductor light emitting diode including a substrate and a multilayer device structure, and wherein said substrate comprises a material selected from sapphire, SiC, and In Ga Al N.

12. (Previously Presented) A light emitting assembly according to claim 11, wherein said multilayer device structure includes layers selected from the group consisting of silicon carbide, aluminum nitride, gallium nitride, gallium phosphide, germanium carbide, indium nitride, and their mixtures and alloys.

13. (Previously Presented) A light emitting assembly according to claim 11, wherein said solid state device comprises a solid state semiconductor laser including an active material selected from the group consisting of III-V alloys and II-VI alloys.

14. (Previously Presented) A light emitting assembly according to claim 1, wherein said solid state device includes an ultraviolet light source and said down-converting luminophoric medium comprises a material selected from the group consisting of perylene tetracarboxylic diimide fluorescent dye; napthalene tetracarboxylic diimide fluorescent dye; 9,10-bis(phenylethynyl) anthracene fluorescent dye; substituted 9,10-diphenylanthracene dyes; tetraphenylbutadiene (TPB) fluorescent dye.

15. (Previously Presented) A light emitting assembly according to claim 1, wherein said solid state device includes an ultraviolet light source and said down-converting luminophoric medium comprises a napthalene tetracarboxylic diimide fluorescent dye, to provide blue light emission, and substituted perylene tetracarboxylic diimide dyes to provide green (or green-yellow) and red light emissions.

16. (Previously Presented) A light emitting assembly according to claim 1, wherein said solid state device includes a blue light source and said down-converting luminophoric medium comprises a material selected from the group consisting of: a napthalene tetracarboxylic diimide fluorescent dye, to provide greater luminosity of the color hue blue; a 9,10-diphenylanthracence, to provide greater luminosity of the color hue blue; a substituted 9,1 0-diphenylanthracence, to provide greater luminosity of the color hue blue; 1,1,4,4-tetraphenylbutadiene (TPB) to provide greater luminosity of the color hue blue; a perylenetetracarboxylic diimide to provide greater luminosity of the color hues green and red; a perylenetetracarboxylic diimide to provide greater luminosity of the color hue red, and 9,10-bis(phenylethynyl) athracence to provide greater luminosity of the color hue green; and a perylenetetracarboxylic diimide to provide greater luminosity of the color hue red, and halogen-substituted 9,10-bis(phenylethynyl) athracence to provide greater luminosity of the color hue green.

17. (Previously Presented) A light emitting assembly according to claim 1, wherein said down-converting luminophoric medium comprises a perylenetetracarboxylic diimide and a napthalenetetracarboxylic diimide, and wherein each perylenetetracarboxylic diimide is formulated with a concentration between 10^{-3} and 5 mole percent, and wherein each napthalenetetracarboxylic dumide is formulated with a concentration between 10^{-2} and 10 mole

percent.

18-24. (Cancelled)

25. (Previously Presented) A light emission device, comprising an LED energizable to emit radiation in the blue to ultraviolet spectrum, and a luminophoric medium arranged to be impinged by radiation from the LED in the blue to ultraviolet spectrum and to responsively emit radiation in a range of wavelengths, so that radiation is emitted from the light emission device as a white light output.

26. (Previously Presented) The light emission device of claim 25, wherein the luminophoric medium comprises phosphor material.

27. (Previously Presented) The light emission device of claim 25, wherein the luminophoric medium comprises a material responsively emitting radiation in the green to yellow spectrum.

28. (Previously Presented) The light emission device of claim 25, wherein the LED comprises a blue light LED.

29. (Previously Presented) The light emission device of claim 25, wherein the white light output comprises primary radiation emission from the LED and secondary radiation emission from the luminophoric medium.

30. (Previously Presented) The light emission device of claim 25, wherein the LED comprises a material selected from the group consisting of: gallium nitride; indium gallium nitride; aluminum gallium indium nitride; aluminum gallium nitride; silicon carbide; and zinc selenide.

31. (New) A display including at least one light emission device, wherein each light emission device comprises an LED energizable to emit radiation in the blue to ultraviolet spectrum, and a luminophoric medium arranged to be impinged by radiation from the LED in the blue to ultraviolet spectrum and to responsively emit radiation in a range of wavelengths, so that radiation is emitted from the light emission device as a white light output.

32. (New) The display of claim 31, wherein the luminophoric medium of each light emission device comprises phosphor material.

33. (New) The display of claim 31, wherein the luminophoric medium in each light emission device comprises a material responsively emitting radiation in the green to yellow spectrum.

34. (New) The display of claim 31, wherein the LED in each light emission device comprises a blue light LED.

35. (New) The display of claim 31, wherein the white light output of each light emission device comprises primary radiation emission from the LED and secondary radiation emission from the luminophoric medium.

36. (New) The display of claim 31, wherein the LED in each light emission device comprises a material selected from the group consisting of: gallium nitride; indium gallium nitride; aluminum gallium indium nitride; aluminum gallium nitride; silicon carbide; and zinc selenide.

37. (New) The display of claim 31, comprising a liquid crystal display.

38. (New) The display of claim 31, comprising a backlight display.

39. (New) A white light emitting diode device assembly including an array of light emission devices, each light emission device comprising an LED energizable to emit radiation in the blue to ultraviolet spectrum, and a luminophoric medium arranged to be impinged by radiation from the LED in the blue to ultraviolet spectrum and to responsively emit radiation in a range of wavelengths, so that radiation is emitted from the light emission device as a white light output.

40. (New) The assembly of claim 34, constituting a sub-assembly of a display.

41. (New) The assembly of claim 39, comprising a backlight illumination panel.